

# STABILIZED ELECTRIC DISTRIBUTION SYSTEM FOR USE WITH A VEHICLE HAV- ING ELECTRIC ASSIST

## Abstract

A stabilized electric distribution system for use in a vehicle having electric assist. The system electrically couples an electric assist bus to an accessory load bus while protecting the first electrical bus from electric assist and regenerative braking induced voltage variations. An energy management controller selectively controls each of a electric motor/generator, a DC/DC converter, and an alternator to affect electric energy distribution within the system. Preferably, the electric energy distribution is controlled to maintain the first electrical bus voltage within a predefined voltage range.